

IN THE CLAIMS

A. Claim Amendments

Claims 1-37. (Cancelled)

Claim 38: (Currently Amended) An isolated nucleic acid molecule which encodes a tumor rejection antigen precursor, wherein the complementary sequence of said isolated nucleic acid molecule hybridizes fully to the nucleotide sequence set forth in SEQ ID NO: 13, 14 or 15 at 0.1XSSC, 0.1%SDS, and said isolated nucleic acid molecules comprises nucleotides which encode an amino acid sequence encoded by nucleotides 1129-1155 of SEQ ID NO: 13, nucleotides 1129-1155 of SEQ ID NO: 14, or nucleotides 224-250 of SEQ ID NO: 15.

Claim 39: (Currently Amended) An isolated nucleic acid molecule which encodes a fragment of a tumor rejection antigen precursor, wherein the complementary sequence of said isolated nucleic acid molecule hybridizes fully to the nucleotide sequence set forth in SEQ ID NO: 13, 14 or 15 at 0.1XSSC, 0.1%SDS, and said isolated nucleic acid molecules comprises nucleotides which encode an amino acid sequence encoded by nucleotides 1129-1155 of SEQ ID NO: 13, nucleotides 1129-1155 of SEQ ID NO: 14, or nucleotides 224-250 of SEQ ID NO: 15.

Claim 40: (Currently Amended) An isolated nucleic acid molecule which encodes a tumor rejection antigen, wherein the complementary sequence of said isolated nucleic acid molecule hybridizes fully to the nucleotide sequence set forth in SEQ ID NO: 13, 14 or 15 at 0.1XSSC, 0.1%SDS, and said isolated nucleic acid molecules comprises nucleotides which encode an amino acid sequence encoded by nucleotides 1129-1155 of SEQ ID NO: 13, nucleotides 1129-1155 of SEQ ID NO: 14, or nucleotides 224-250 of SEQ ID NO: 15.

Claim 41: (Currently Amended) An isolated cDNA molecule which encodes a tumor rejection antigen precursor, wherein the complementary sequence of said isolated nucleic acid molecule hybridizes fully to nucleotides 625-1578 of SEQ ID

NO: 13, nucleotides 625-1578 or SEQ ID NO: 14, or nucleotides 1-670 of SEQ ID NO: 15, at 0.1XSS, 0.1%SDS, and said isolated nucleic acid molecules comprises nucleotides which encode an amino acid sequence encoded by nucleotides 1129-1155 of SEQ ID NO: 13, nucleotides 1129-1155 of SEQ ID NO: 14, or nucleotides 224-250 of SEQ ID NO: 15.

Claim 42: (Previously presented) The isolated nucleic acid molecule of claim 38, wherein said nucleic acid molecule is cDNA.

Claim 43: (Currently Amended) An isolated cDNA molecule which encodes a fragment of a tumor rejection antigen precursor, wherein said fragment is processed by cell to a tumor rejection antigen, wherein the complementary sequence of said isolated nucleic acid molecule hybridizes fully to nucleotides 625-1578 of SEQ ID No: 13, nucleotides 625-1578 or SEQ ID NO: 14, or nucleotides 1-670 of SEQ ID NO: 15 at 0.1XSSC, 0.1%SDS, and said isolated nucleic acid molecules comprises nucleotides which encode an amino acid sequence encoded by nucleotides 1129-1155 of SEQ ID NO: 13, nucleotides 1129-1155 of SEQ ID NO: 14, or nucleotides 224-250 of SEQ ID NO: 15.

Claim 44: (Currently Amended) An isolated cDNA molecule which encodes a tumor rejection antigen, said tumor rejection antigen consisting of an amino acid sequence that is part of a tumor rejection antigen precursor, wherein said tumor rejection antigen precursor is encoded by a nucleic acid molecule the complementary sequence of which hybridizes fully to nucleotides 625-1578 of SEQ ID NO: 13, nucleotides 625-1578 or SEQ ID NO: 14, or nucleotides 1-670 of SEQ ID NO: 15 at 0.1XSSC, 0.1% SDS, and said isolated nucleic acid molecules comprises nucleotides which encode an amino acid sequence encoded by nucleotides 1129-1155 of SEQ ID NO: 13, nucleotides 1129-1155 of SEQ ID NO: 14, or nucleotides 224-250 of SEQ ID NO: 15.

Claim 45: (Previously presented) The isolated nucleic acid molecule of claim 38, comprising SEQ ID NO: 13, 14 or 15.

- Claim 46: (Previously presented) An expression vector comprising the isolated nucleic acid molecule of claim 42, operably linked to a promoter.
- Claim 47: (Previously presented) An expression vector comprising the isolated nucleic acid molecule of claim 43, operably linked to a promoter.
- Claim 48: (Previously presented) An expression vector comprising the isolated nucleic acid molecule of claim 44, operably linked to a promoter.
- Claim 49: (Previously presented) A host cell transformed or transfected with the isolated nucleic acid molecule of claim 38.
- Claim 50: (Previously presented) A host cell transformed or transfected with the isolated nucleic acid molecule of claim 39.
- Claim 51: (Previously presented) A host cell transformed or transfected with the isolated nucleic acid molecule of claim 40.
- Claim 52: (Previously presented) The host cell of claim 49, wherein said cell is a fibroblast.
- Claim 53: (Previously presented) The host cell of claim 50, wherein said cell is a fibroblast.
- Claim 54: (Previously presented) The host cell of claim 51, wherein said cell is a fibroblast.
- Claim 55: (Previously presented) The host cell of claim 49, wherein said cell is a mammalian cell.
- Claim 56: (Previously presented) The host cell of claim 50, wherein said cell is a mammalian cell.
- Claim 57: (Previously presented) The host cell of claim 51, wherein said cell is a mammalian cell.

- Claim 58: (Currently Amended) An isolated nucleic acid molecule which encodes a tumor rejection antigen precursor encoded by nucleotides 625-1578 of SEQ ID NO: 13, nucleotides 625-1578 ~~or~~ of SEQ ID NO: 14, or nucleotides 1-670 of SEQ ID NO: 15.
- Claim 59. (Canceled)
- Claim 60. (Currently Amended) An isolated nucleic acid molecule which encodes a tumor rejection antigen, the amino acid sequence of which consists of an amino acid sequence that is a part of the amino acid sequence encoded by nucleotides 13, nucleotides 625-1578 or SEQ ID NO: 14, or nucleotides 1-670 of SEQ ID NO: 15, wherein said amino acid sequence includes nucleotides 1129-1155 of SEQ ID NO: 13, nucleotides 1129-1155 of SEQ ID NO :14, or nucleotides 224-250 of SEQ ID NO: 15.
- Claim 61: (Previously presented) An isolated DNA molecule which encodes a MAGE-4 or MAGE-41 tumor rejection antigen precursor expressed by melanoma cells, comprising one of:
- (i) nucleotides 625-1575 of SEQ ID NO: 13;
 - (ii) nucleotides 625-1575 of SEQ ID NO: 14; or
 - (iii) nucleotides 1-670 of SEQ ID NO: 15.
- Claim 62. (Canceled)
- Claim 63. (Previously presented) The isolated nucleic acid molecule of claim 60, wherein said molecule is cDNA.
- Claim 64: (Previously presented) An isolated DNA molecule which encodes a MAGE-4 or MAGE-41 tumor rejection antigen precursor comprising one of:
- (i) nucleotides 625-1578 of SEQ ID NO: 13;
 - (ii) nucleotides 625-1578 of SEQ ID NO: 14; or
 - (iii) nucleotides 1-670 of SEQ ID NO: 15.

Claim 65. (Previously Presented) An isolated genomic DNA molecule which encodes the protein encoded by the isolated genomic DNA molecule of claim 64.

Claim 66: (Previously Presented) An isolated DNA molecule consisting of:

- (i) nucleotides 625-1578 of SEQ ID NO: 13;
- (ii) nucleotides 625-1578 of SEQ ID NO: 14; or
- (iii) nucleotides 1-670 of SEQ ID NO: 15.